

CERTIFICATE OF ANALYSIS

Address

Work Order : WN1901677

Client OBERON COUNCIL

Contact Mr Richard Robinson

Address : 137-139 OBERON STREET

OBERON NSW, AUSTRALIA 2787

Telephone : +61 02 6393 5000

Project : OBERON WASTEWATER

Order number : 2337

C-O-C number : ****

Sampler : Lou Grozdanouski

Site :--

Quote number : WN Blanket Quote

No. of samples received

No. of samples analysed

2

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Laboratory : ALS Water - Newcastle

Contact : Andrea Swan

: 5/585 Maitland Road Newcastle West NSW Australia 2304

Telephone : +61 2 4014 2500

Date Samples Received : 12-Mar-2019 09:15

Date Analysis Commenced : 12-Mar-2019

Issue Date : 20-Mar-2019 14:20



Accredited for compliance with ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories Position Accreditation Category

Katie DraperQuality CoordinatorChemistry, Newcastle West, NSWNell MartinTeam Leader - ChemistryChemistry, Newcastle West, NSWSuzanne MeldrumTechnical OfficerMicrobiology, Newcastle West, NSW

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General Comments

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contact for details.

Key: CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

LOR = Limit of reporting

^ = This result is computed from individual analyte detections at or above the level of reporting

ø = ALS is not NATA accredited for these tests.

~ = Indicates an estimated value.

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Client Project : OBERON COUNCIL OBERON WASTEWATER

Analytical Results

oub-Matrix: WATER Matrix: WATER)	Client sample ID Client sampling date / time			ExPond Works Discharge EMP1 11-Mar-2019 10:00	Up-Stream EMP3 11-Mar-2019 10:15	Down-Stream EMP4 11-Mar-2019 10:50	ExPond Works Discharge EMP1 11-Mar-2019 13:00	
Compound	CAS Number	LOR	Unit	WN1901677-001	WN1901677-002	WN1901677-003	WN1901677-004	5500000000
				Result	Result	Result	Result	===
EA005: pt								
pH Value	221	0.01	pH Unit	7.71	6.97	7.17	A STATE OF THE PROPERTY OF THE PARTY OF THE	
EA025: Total Suspended Solids dried	at 104 ± 2°C							
Suspended Solids (SS)		1	mg/L	53		The state of the s	- 1.116 1000	
EK055A: Ammonia as I								
Ammonia as N	7664-41-7	0.05	mg/L	0.16	<u> </u>		The second of th	*****
EK059A: Nitrite and Nitrate as N (NO								
Nitrite + Nitrate as N		0.05	mg/L	<0.05	<0.05	<0.05		
EK061A: Total Kjeldahl Nitrogen as N		-						
Total Kjeldahi Nitrogen as N		0.2	mg/L	6.0	0.3	0.9		
EK062A: Total Nitrogen as N								
Total Nitrogen as N	-2711	0.1	mg/L	6.0	0.3	0.9		
EK067A: Total Phosphorus as			1					
Total Phosphorus as P	2000	0.05	mg/L	1,40	<0.05	0.13		
EP008.WN: Chlorophyll a and F heoph	vtin a :	7 50	-					
Chlorophyil a	, 	1.0	µg/L	330	and the same of th		Alle Smit Au to the manner programming party and the second to the second terminal to the second terminal termi	
EP021: Total Oil and Greas		-						
Total Oil and Grease	(asai	2	mg/L	<2	(*****)	per index on the contract of the results and performance of the contract of th	ners de schreuterbeschen seder-dester (date deste) — abende deste us un deb , à de des antends de pap que El 1986	
EP030.WN: Biochemical Oxygen Dema	and (BOD)	55						
Blochemical Oxygen Demand	أبسد	2	mg/L	18	2544		. No And the state of the special parties in the state of the parties of the parties of the state of the s	Pilm q
MW006.WN: Thermotolerant Coliforms	s & E coli (ME)							
Faecal Coliforms		40	CFU/100mL	2000	4114		~400	